

STATE OF CALIFORNIA

LANDSCAPE ARCHITECTURE

DEPARTMENT OF TRANSPORTATION

SENIOR LANDSCAPE ARCHITECT

CALCULATED-DESIGNED BY

JOHN DOE

REVISOR

00/00/00

DATE

00/00/00

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GENERAL

This is an example to be used as instruction for the Landscape Architect creating project specific erosion control sheets.

For additional information see the Plans Preparation Manual Section 2.8 "Erosion Control."

ITEM

The item description should match the BEES item description, except the units are not to be included. Price of bid item will include all materials shown. For example, if "SEED" is shown adjacent to COMPOST then the seed is paid for as part of the "Compost" item. An exception is the "Incorporate Materials" bid item which pays for the incorporation only. Any materials incorporated are paid for under other bid items.

HYDROSEED AND HYDROMULCH ITEMS

MATERIAL: Hydroseed Item will always include a "SEED" row. Hydromulch item will never include a "SEED" row. Materials for both may include "FIBER," "TACKIFIER," "FERTILIZER," and other materials (Per Std Spec section 21-2.03D).

MATERIAL TYPE (FIBER): If Fiber is used, identify the type (Per Std Spec section 21-1.02E). Enter "WOOD," "CELLULOSE," "ALTERNATE" or combination of types with percentages wanted such as "50% WOOD 50% CELLULOSE."

MATERIAL TYPE (TACKIFIER): If tackifier is used, identify type (Per Std Spec section 21-1.02F). Enter "POLYMERIC EMULSION BLEND" or "PLANT BASED," or if more specific preference for plant based then enter "GUAR," "PSYLLIUM," or "STARCH."

APPLICATION RATE: Show application rate for each material for hydroseed and hydromulch.

COMPOST ITEM

MATERIAL: Materials for Compost Item may be "COMPOST" and "SEED" (Per Std Spec section 21-2.03I). If seed is used, then split the row after Compost Item and add seed material, type, and application rate.

MATERIAL TYPE: For compost identify type (Per Std Spec section 21-2.02K table for particle size). Enter "FINE," "MEDIUM," or "COARSE."

APPLICATION RATE: Show application rate for compost in volume per area format, not by depth.

STRAW ITEM

MATERIAL: Always enter "STRAW" for material.

MATERIAL TYPE: For straw identify type (Per Std Spec section 21-2.02H Straw). Enter "WHEAT," "RICE," "BARLEY," or combination of types with percentages wanted such as "50% WHEAT 50% BARLEY."

APPLICATION RATE: Show application rate for straw in TON/ACRE format.

EROSION CONTROL TYPE 1

| SEQUENCE | ITEM       | MATERIAL  | MATERIAL TYPE | APPLICATION RATE |
|----------|------------|-----------|---------------|------------------|
| STEP 1   | HYDROSEED  | SEED      | MIX 1         | 42 LB/ACRE       |
|          |            | FIBER     | WOOD          | 500 LB/ACRE      |
| STEP 2   | HYDROMULCH | FIBER     | WOOD          | 1,500 LB/ACRE    |
|          |            | TACKIFIER | GUAR          | 125 LB/ACRE      |

EROSION CONTROL TYPE 2

| SEQUENCE | ITEM       | MATERIAL  | MATERIAL TYPE | APPLICATION RATE |
|----------|------------|-----------|---------------|------------------|
| STEP 1   | COMPOST    | COMPOST   | MEDIUM        | 130 CY/ACRE      |
|          |            | SEED      | MIX 1         | 42 LB/ACRE       |
| STEP 2   | HYDROMULCH | FIBER     | WOOD          | 1,500 LB/ACRE    |
|          |            | TACKIFIER | GUAR          | 125 LB/ACRE      |

EROSION CONTROL TYPE 3

| SEQUENCE | ITEM       | MATERIAL  | MATERIAL TYPE | APPLICATION RATE |
|----------|------------|-----------|---------------|------------------|
| STEP 1   | HYDROSEED  | SEED      | MIX 1         | 42 LB/ACRE       |
|          |            | FIBER     | WOOD          | 500 LB/ACRE      |
| STEP 2   | STRAW      | STRAW     | WHEAT         | 2 TON/ACRE       |
|          |            | FIBER     | WOOD          | 1,500 LB/ACRE    |
| STEP 3   | HYDROMULCH | TACKIFIER | GUAR          | 125 LB/ACRE      |

EROSION CONTROL TYPE 4

| SEQUENCE | ITEM                  | MATERIAL  | MATERIAL TYPE | APPLICATION RATE | DEPTH |
|----------|-----------------------|-----------|---------------|------------------|-------|
| STEP 1   | STRAW                 | STRAW     | WHEAT         | 2 TONS/ACRE      | 4"    |
| STEP 2   | INCORPORATE MATERIALS |           |               |                  |       |
| STEP 3   | HYDROSEED             | SEED      | MIX 2         | 35 LB/ACRE       |       |
|          |                       | FIBER     | WOOD          | 500 LB/ACRE      |       |
| STEP 4   | HYDROMULCH            | FIBER     | WOOD          | 1,500 LB/ACRE    |       |
|          |                       | TACKIFIER | GUAR          | 125 LB/ACRE      |       |

EROSION CONTROL TYPE 5

| SEQUENCE | ITEM       | MATERIAL  | MATERIAL TYPE | APPLICATION RATE |
|----------|------------|-----------|---------------|------------------|
| STEP 1   | DRILL SEED | SEED      | MIX 3         | 30 LB/ACRE       |
| STEP 2   | STRAW      | STRAW     | WHEAT         | 2 TONS/ACRE      |
|          |            | FIBER     | WOOD          | 1,500 LB/ACRE    |
| STEP 3   | HYDROMULCH | TACKIFIER | GUAR          | 125 LB/ACRE      |

EROSION CONTROL TYPE 6

| SEQUENCE | ITEM                                     | MATERIAL  | MATERIAL TYPE | APPLICATION RATE |
|----------|--|-----------|---------------|------------------|
| STEP 1   | COMPOST                                  | COMPOST   | MEDIUM        | 130 CY/ACRE      |
| STEP 2   | ROLLED EROSION CONTROL PRODUCT (NETTING) | NETTING   | TYPE A        |                  |
| STEP 3   | HYDROSEED                                | SEED      | MIX 1         | 42 LB/ACRE       |
|          |  | FIBER     | WOOD          | 500 LB/ACRE      |
| STEP 4   | HYDROMULCH                               | FIBER     | WOOD          | 1,500 LB/ACRE    |
|          |  | TACKIFIER | GUAR          | 125 LB/ACRE      |

EROSION CONTROL LEGEND BASIC INFORMATION

DIST

COUNTY

ROUTE

POST MILES TOTAL PROJECT

SHEET No.

TOTAL SHEETS

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LICENSED LANDSCAPE ARCHITECT

Signature

Renewal Date

Date

STATE OF CALIFORNIA

INCORPORATE MATERIALS ITEM

MATERIAL: The Incorporate Materials bid item is for the incorporation work only, the materials are paid for under other bid items.

Incorporate Materials is used to mix topsoil, duff, compost, and or mulch to the depth specified.

Per Std Spec 21-2.03J, Incorporate Materials work also includes compaction.

MATERIAL TYPE: For Incorporate Materials always leave type blank since it is not applicable. The material type is to be specified with each item that is to be incorporated.

APPLICATION RATE: For Incorporate Materials always leave application rate blank, since it is not applicable.

DEPTH: When Incorporate Materials is used add a column for "DEPTH." Enter the depth of incorporation in inches. Note that incorporation methods may differ (Per Std Spec section 21-1.03N Incorporate Materials).

DRILL SEED ITEM

MATERIAL: Always enter "SEED" for material.

MATERIAL TYPE: For seed identify Mix number shown in Seed Mix table.

APPLICATION RATE: Show seed application rate in LB/ACRE format. Quantity of LB must match total of pounds Pure Live Seed shown in the Seed Mix table.

RECP ITEM

MATERIAL: Match the type of RECP material shown in parentheses. Enter "JUTE MESH," "NETTING," "BLANKET," or "TRM."

MATERIAL TYPE: Identify the type when material is netting, blanket, or TRM (Per Std Spec section 21-2.020(2), (3), (4), and (5)). Enter "TYPE A," "TYPE B," or "TYPE C." Leave blank for jute mesh.

APPLICATION RATE: For all RECP always leave blank, since this is not applicable.

EROSION CONTROL LEGEND

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